**DESCRIPTION**

**Species Reactivity**
Human

**Specificity**
Detects human ADAM8 Ectodomain in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse ADAM8 is observed and less than 1% cross-reactivity with recombinant human (rh) ADAM12, rhADAM19, and rhADAM33 is observed.

**Source**
Polyclonal Goat IgG

**Purification**
Antigen Affinity-purified

**Immunogen**
S. frugiperda insect ovarian cell line Sf 21-derived recombinant human ADAM8 Ectodomain

Glu158-Ser653
Accession # P78325

**Formulation**
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Recommended Concentration**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL Recombinant Human ADAM8 aa 158-497 (Catalog # 1031-AD)</td>
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<tr>
<td>Immunocytochemistry</td>
<td>5-15 μg/mL See Below</td>
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<tr>
<td>Immunoprecipitation</td>
<td>25 μg/mL Conditioned cell culture medium spiked with Recombinant Human ADAM8 aa 158-497 (Catalog # 1031-AD), see our available Western blot detection antibodies</td>
</tr>
</tbody>
</table>

**DATA**

**Immunocytochemistry**

ADAM8 in Human PBMCs. ADAM8 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Goat Anti-Human ADAM8 Ectodomain Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1031) at 15 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasmic. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**PREPARATION AND STORAGE**

**Reconstitution**
Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.*

**Stability & Storage**
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

ADAM8, also known as cell surface antigen MS2 or CD156a, is a member of the ADAM family that contains a disintegrin and metalloprotease-like domain (1, 2). ADAM8 can cleave a variety of substrates and has been shown as a sheddase for the low affinity IgE receptor CD23 and the neural recognition molecule CHL1 (3, 4). Expression and regulation studies suggest that ADAM8 is a novel osteoclast stimulating factor and may play a role in asthma (5, 6). The 824 amino acid precursor of human ADAM8 consists of a signal peptide (residues 1 to 16), a pro peptide (residues 17 to 199), a metalloprotease domain (residues 200 to 400), a disintegrin-like domain (residues 408 to 494), a cysteine-rich region (residues 497 to 613), an EGF-like domain (residues 614 to 640), a transmembrane region (residues 656 to 676) and a cytoplasmic domain (residues 677 to 824).

References: